



SERVICE MANUAL

Product Type: LCD TV
Chassis: ML-027C
Manual Part #: 3828VD0140J
Product Year: 2003

Model Series:

L23W36

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Zenith Electronics Corporation
201 James Record Road
Huntsville, Alabama 35824-1513

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PRODUCT SAFETY

IMPORTANT SAFETY NOTICE

This manual was prepared for use only by properly trained audiovisual service technicians. When servicing this product, under no circumstances should the original design be modified or altered without permission from Zenith Electronics Corporation. All components should be replaced only with types identical to those in the original circuit and their physical location, wiring, and lead dress must conform to original layout upon completion of repairs. If any fuse (or Fusible Resistor) in this TV receiver is blown, replace it only with the factory specified fuse type and rating. When replacing a high wattage resistor (Oxide Metal Film Resistor, over 1W), keep the resistor 10mm away from PCB. Always keep wires away from high voltage or high temperature parts.

Special components are also used to prevent shock and fire hazard. These components are indicated by the letter "x" included in their component designators and are required to maintain safe performance. No deviations are allowed without prior approval by Zenith Electronics Corporation. Service work should be performed only after you are thoroughly familiar with these safety checks and servicing guidelines.

Circuit diagrams may occasionally differ from the actual circuit used. This way, implementation of the latest safety and performance improvement changes into the set is not delayed until the new service literature is printed.

CAUTION: Do not attempt to modify this product in any way.
Never perform customized installations without manufacturer's approval.
Unauthorized modifications will not only void the warranty, but may lead to property damage or user injury.

GENERAL GUIDANCE

An Isolation Transformer should always be used during the servicing of a receiver whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating to protect against personal injury from electrical shocks. It will also protect the receiver and its components from being damaged by accidental shorts of the circuitry that may be inadvertently introduced during the service operation.

Before returning the receiver to the customer, always perform an AC leakage current check on the exposed metallic parts of the cabinet, such as antennas, terminals, etc., to be sure the set is safe to operate without damage of electrical shock.

LEAKAGE CURRENT COLD CHECK (ANTENNA COLD CHECK)

With the instrument's AC plug removed from AC source, connect an electrical jumper across the two AC plug prongs. Place the AC switch in the on position, connect one lead of ohm-meter to the AC plug prongs tied together, and touch other ohm-meter lead in turn to each exposed metallic parts such as antenna terminals, phone jacks, etc. If the exposed metallic part has a return path to the chassis, the measured resistance should be between 1M Ω and 5.2M Ω . When the exposed metal has no return path to the chassis the reading must be infinite. Any other abnormality that exists must be corrected before the receiver is returned to the customer.

ELECTROSTATICALLY SENSITIVE DEVICES

Some semiconductor (solid-state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on the body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as an ESD mat, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charge sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil, or comparable conductive material.)
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

Caution: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise, seemingly harmless motion, such as the brushing together of your clothing or the lifting of your foot from a carpeted floor, can generate static electricity sufficient to damage an ES device.)

REGULATORY INFORMATION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: Reorient or relocate the receiving antenna; Increase the separation between the equipment and receiver; Connect the equipment into an outlet on a circuit different from that to which the receiver is connected; Consult the dealer or an experienced radio/TV technician for help.

The responsible party for this device's compliance is:

Zenith Electronics Corporation
201 James Record Road
Huntsville, AL 35824, USA
Digital TV Hotline: 1-877-993-6484

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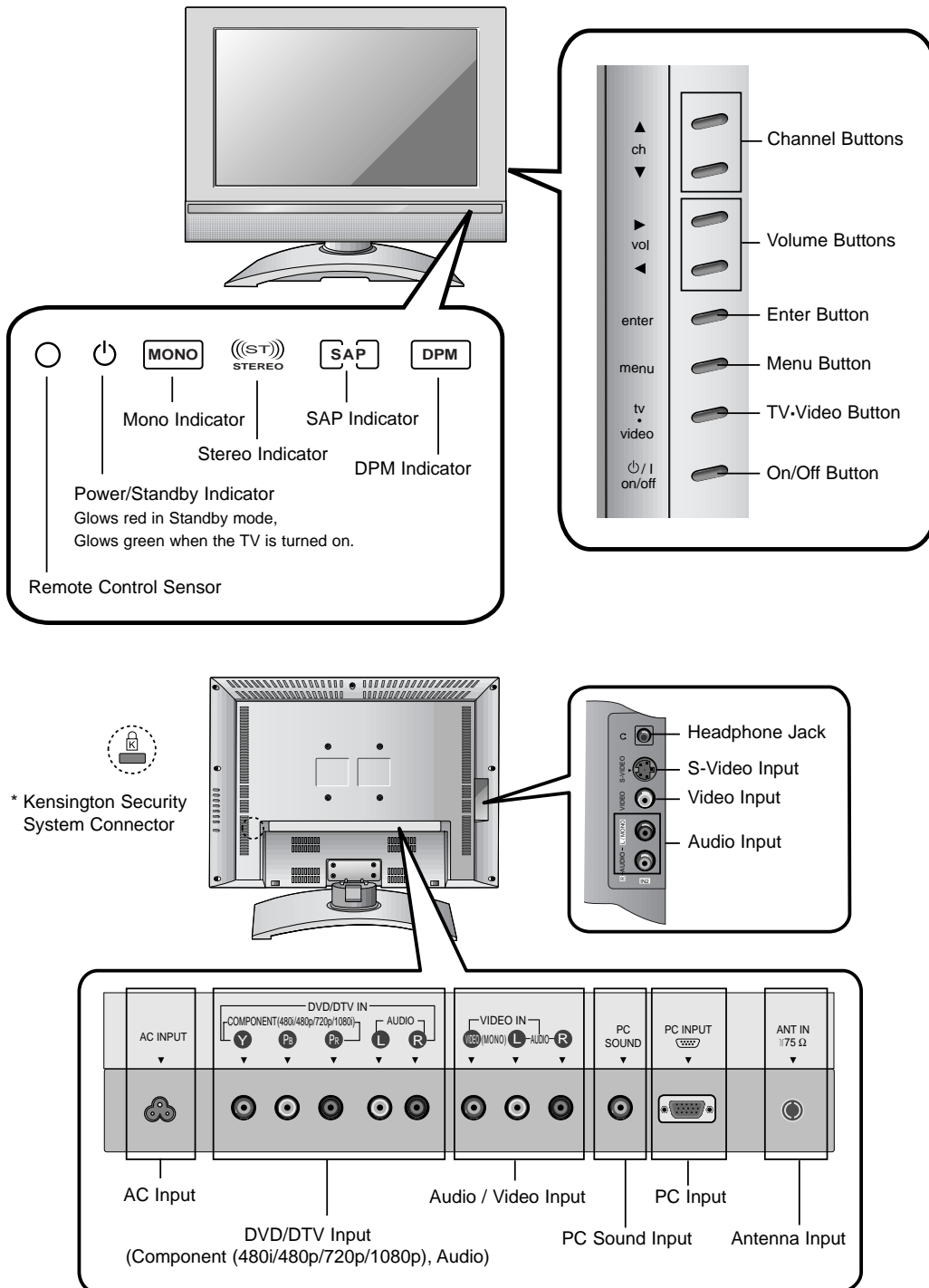
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SPECIFICATIONS

| MODEL | L23W36 |
|----------------------------|---|
| Width (inches) | 23.6 |
| Height (inches) | 20.6 |
| Depth (inches) | 8.1 |
| Weight (pounds) | 22 |
| Power Requirement | AC100-240V ~ 60Hz |
| Television System | NTSC |
| Television Channel | VHF : 2 ~ 13, UHF : 14 ~ 69, Cable : 01 ~ 125 |
| Television Screen | LCD Panel |
| External Antenna Impedance | 75 Ω |
| Audio Output | 7 W + 7 W |

DESCRIPTION OF CONTROLS

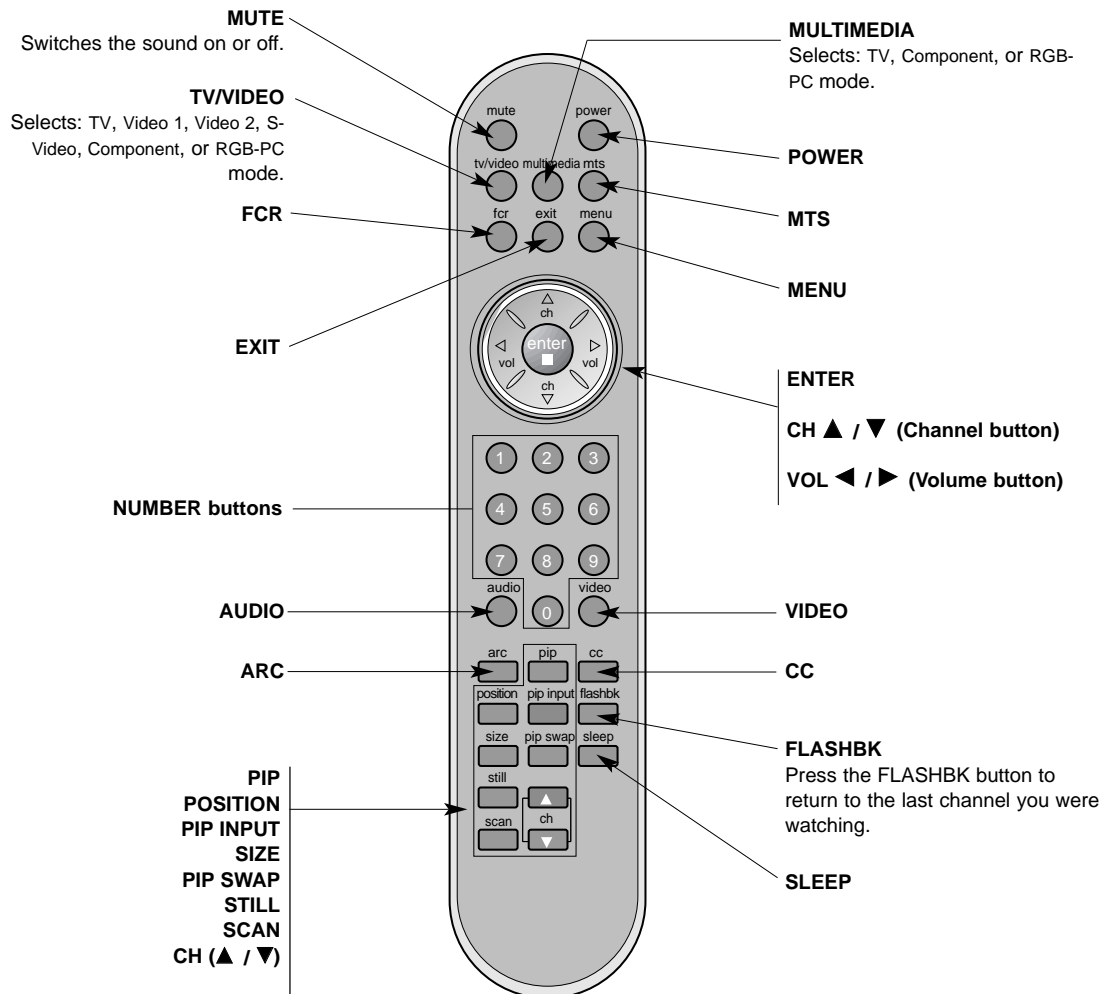
Controls & Connection Options



DESCRIPTION OF CONTROLS

Remote Control Key Functions

- When using the remote control, aim it at the remote control sensor on the TV.



ADJUSTMENT INSTRUCTIONS

1. Application Object

This instruction is for the application to the LCD TV.

2. Notes

- (1) This set uses an adapter, so connect the adapter and the set correctly before adjustment.
- (2) Adjustments must be performed in the correct sequence.
- (3) Adjustments must be performed in an environment of $25\pm5^{\circ}\text{C}$ (68-85 degrees F) of temperature and $65\pm10\%$ of relative humidity.
- (4) The input voltage of the receiver must keep 100~240V, 50/60Hz in adjusting.
- (5) The set must be operated for 15 minutes prior to adjustment.

※ 'Heat Run' must be performed with the full white signal or TV noise signal.

3. PC Input Mode Adjustment

3-1. Required Test Equipment

- (1) A pattern generator; Gray pattern of 16 tones with angle outline in the quadrilateral (MSPG-925LTH)
- (2) An adjustment Remote.

3-2. Preparation for Adjustment

- (1) Perform 'Heat Run' for more than 15 minutes in white pattern.
- (2) Connect the signal of pattern generator with LCD TV.

3-3. Auto Gray Adjustment

- (1) Apply the gray signal XGA(1024X768) 16 tones from a signal generator.
- (2) In Service menu mode, adjust the Auto gray from 0 to 1 by using Vol(+) button.

ADJUSTMENT INSTRUCTIONS

4. Position Adjustment

| Mode | VGA-60 | VGA-67 | VGA-75 | VGA-85 | SVGA-56 | SVGA-60 | SVGA-72 | SVGA-75 | SVGA- |
|-------------|--------|--------|--------|--------|---------|---------|---------|---------|--------|
| H_Display | 640 | 640 | 640 | 640 | 800 | 800 | 800 | 800 | 85800 |
| V_Display | 480 | 480 | 480 | 480 | 600 | 600 | 600 | 600 | 600 |
| V_Frequency | 60 | 67 | 75 | 82 | 56 | 60 | 72 | 75 | 85 |
| H_Total | 800 | 864 | 840 | 832 | 1024 | 1056 | 1040 | 1056 | 1048 |
| H_Blanking | 160 | 224 | 200 | 192 | 224 | 256 | 240 | 256 | 248 |
| H_Sync | 96 | 64 | 64 | 56 | 72 | 128 | 120 | 80 | 64 |
| H_Polarity | NEG. | NEG. | NEG | NEG | POS | POS | POS | POS | POS |
| H_Vp | 48 | 96 | 120 | 80 | 128 | 88 | 64 | 160 | 152 |
| H_Fp | 16 | 64 | 16 | 56 | 24 | 40 | 56 | 16 | 32 |
| H-Freq[KHz] | 31.469 | 35.0 | 37.5 | 43.269 | 35.156 | 37.879 | 48.077 | 46.875 | 53.674 |
| /Clk[MHz] | 25.175 | 30.24 | 31.5 | 36.0 | 36.0 | 40.0 | 50.0 | 49.5 | 56.25 |
| V_Total | 525 | 525 | 500 | 509 | 62.5 | 628 | 666 | 625 | 631 |
| V_Blanking | 45 | 45 | 20 | 29 | 25 | 28 | 66 | 25 | 31 |
| V_Sync | 2 | 3 | 3 | 3 | 2 | 4 | 6 | 3 | 3 |
| V_Polarity | NEG | NEG | NEG | NEG | POS | POS | POS | POS | POS |
| V_Bp | 33 | 39 | 16 | 25 | 22 | 23 | 23 | 21 | 27 |
| V_Fp | 10 | 3 | 1 | 1 | 1 | 1 | 37 | 1 | 1 |

| Mode | XGA-60 | XGA-70 | XGA-75 | XGA-85 | WXGA-50 | WXGA-60 |
|-------------|--------|--------|--------|--------|---------|---------|
| H_Display | 1024 | 1024 | 1024 | 1024 | 1280 | 1280 |
| V_Display | 768 | 768 | 768 | 768 | 768 | 768 |
| V_Frequency | 60 | 70 | 75 | 82 | 50 | 60 |
| H_Total | 1344 | 1328 | 1312 | 1376 | 1648 | 1680 |
| H_Blanking | 320 | 304 | 288 | 352 | 368 | 400 |
| H_Sync | 136 | 136 | 96 | 96 | 128 | 136 |
| H_Polarity | NEG | NEG | POS | POS | NEG | NEG |
| H_Vp | 136 | 144 | 176 | 208 | 184 | 200 |
| H_Fp | 160 | 24 | 16 | 48 | 56 | 64 |
| H-Freq[KHz] | 48.363 | 56.476 | 60.023 | 68.677 | 39.518 | 47.693 |
| /Clk[MHz] | 65.0 | 75.0 | 78.75 | 84.997 | 65.125 | 80.125 |
| V_Total | 806 | 806 | 800 | 808 | 791 | 795 |
| V_Blanking | 38 | 38 | 32 | 40 | 23 | 27 |
| V_Sync | 6 | 6 | 3 | 3 | 7 | 7 |
| V_Polarity | NEG | NEG | POS | POS | POS | POS |
| V_Bp | 29 | 29 | 28 | 36 | 15 | 19 |
| V_Fp | 3 | 3 | 1 | 1 | 1 | 1 |

ADJUSTMENT INSTRUCTIONS

5. EDID (The Extended Display Identification Data)

EDID Table

| | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 0A | 0B | 0C | 0D | 0E | 0F |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 00 | 00 | FF | FF | FF | FF | FF | FF | 00 | 30 | E5 | D7 | 3A | 01 | 00 | 00 | 00 |
| 10 | 00 | 0B | 01 | 01 | 78 | 1F | 17 | 70 | E8 | C3 | A0 | A3 | 54 | 4C | 97 | 24 |
| 20 | 14 | 50 | 54 | BF | E8 | 80 | 31 | 59 | 3B | D9 | 45 | 59 | 61 | 59 | 71 | 59 |
| 30 | 81 | 40 | 81 | 80 | 01 | 01 | 10 | 0E | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
| 40 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | F9 | 15 | 01 | 01 | 01 | 01 | 01 | 01 |
| 50 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 64 | 19 | 00 | 40 | 41 | 00 |
| 60 | 26 | 30 | 18 | 88 | 36 | 00 | 0E | C3 | 10 | 00 | 00 | 1E | 00 | 00 | 00 | FD |
| 70 | 00 | 32 | 55 | 1E | 46 | 0D | 00 | 0A | 20 | 20 | 20 | 20 | 20 | 20 | 00 | C8 |

TROUBLESHOOTING

1. General Features

| No. | Symptom | Cause | Check Point |
|-----|-------------|---|---|
| 1 | No screen | Input error of inverter connector | 1) Bend the pin legs of P1 connector -> recheck them 2) Check and repair F804. |
| | | P704 connector slipping out | 1) Check and fix P704 connector 2) Check and fix the components at P704 LCD module and at main board. 3) Check Pin21. |
| | | Cracked components and soldering at tuner board | Check and repair tuner board and main board |
| 2 | Dark screen | 1) Defective LCD lamp 2) Defective inverter 3) Input error for inverter | 1) Replace the LCD lamp 2) Replace the inverter 3) Check the connector input. |

2. PC Mode

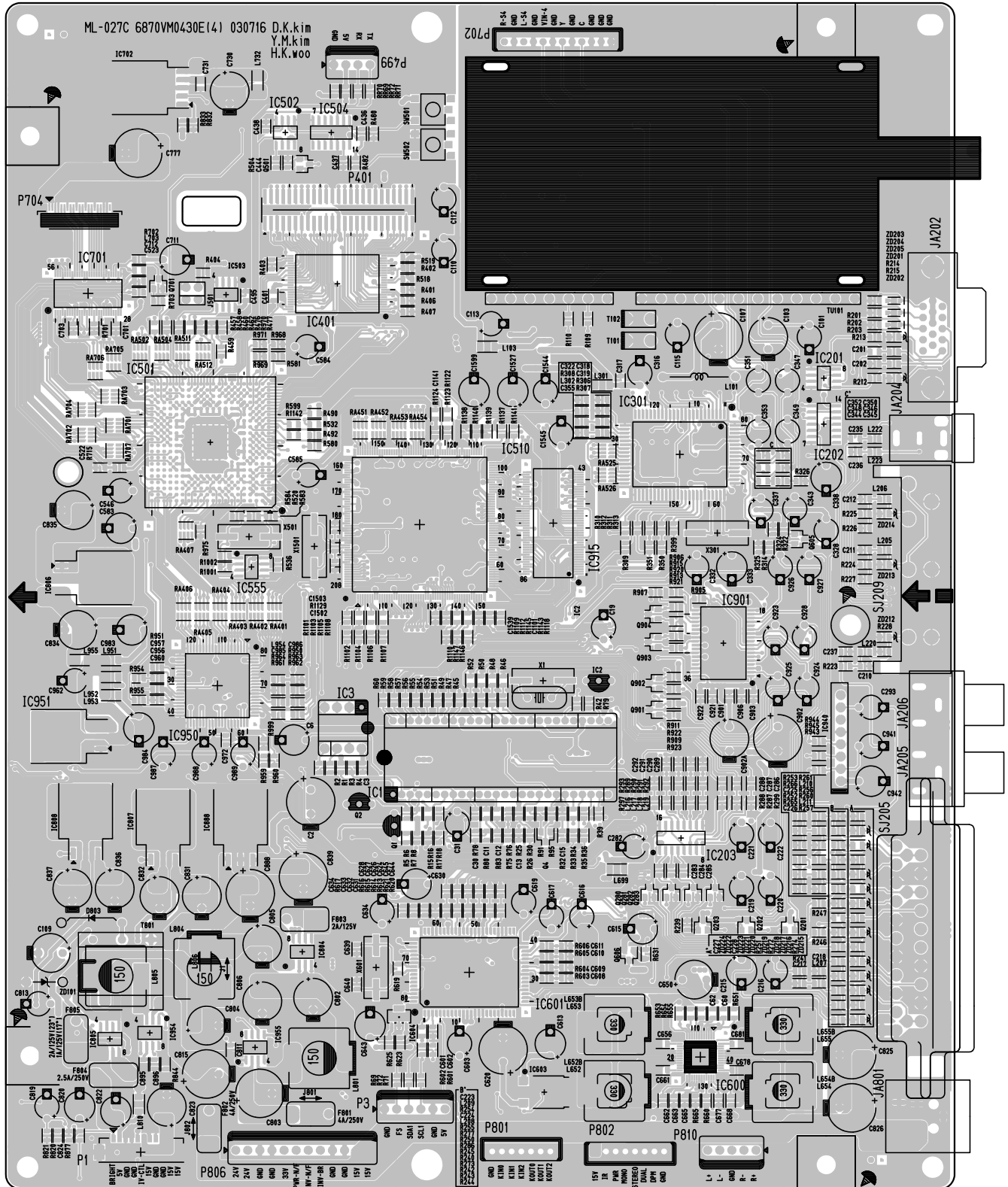
| No. | Symptom | Cause | Check Point |
|-----|-----------------------|--|---|
| 1 | Screen noise | Clock or phase not able to adjusted. | 1) Resetting needed according to the video card of each PC. 2) Horizontal noise : adjust phase until no horizontal noise. 3) Vertical noise : adjust clock in menu until no vertical noise. |
| 2 | Screen position error | Screen position error horizontally or vertically | 1) Activate Auto Configure in the Menu. 2) Adjust horizontal and vertical position until the screen displays normally. |
| 3 | Color beat noise | Soldering D-SUB Jack of JA202 and IC202. | Recheck and repair JA202, IC202 |

3. TV and external input

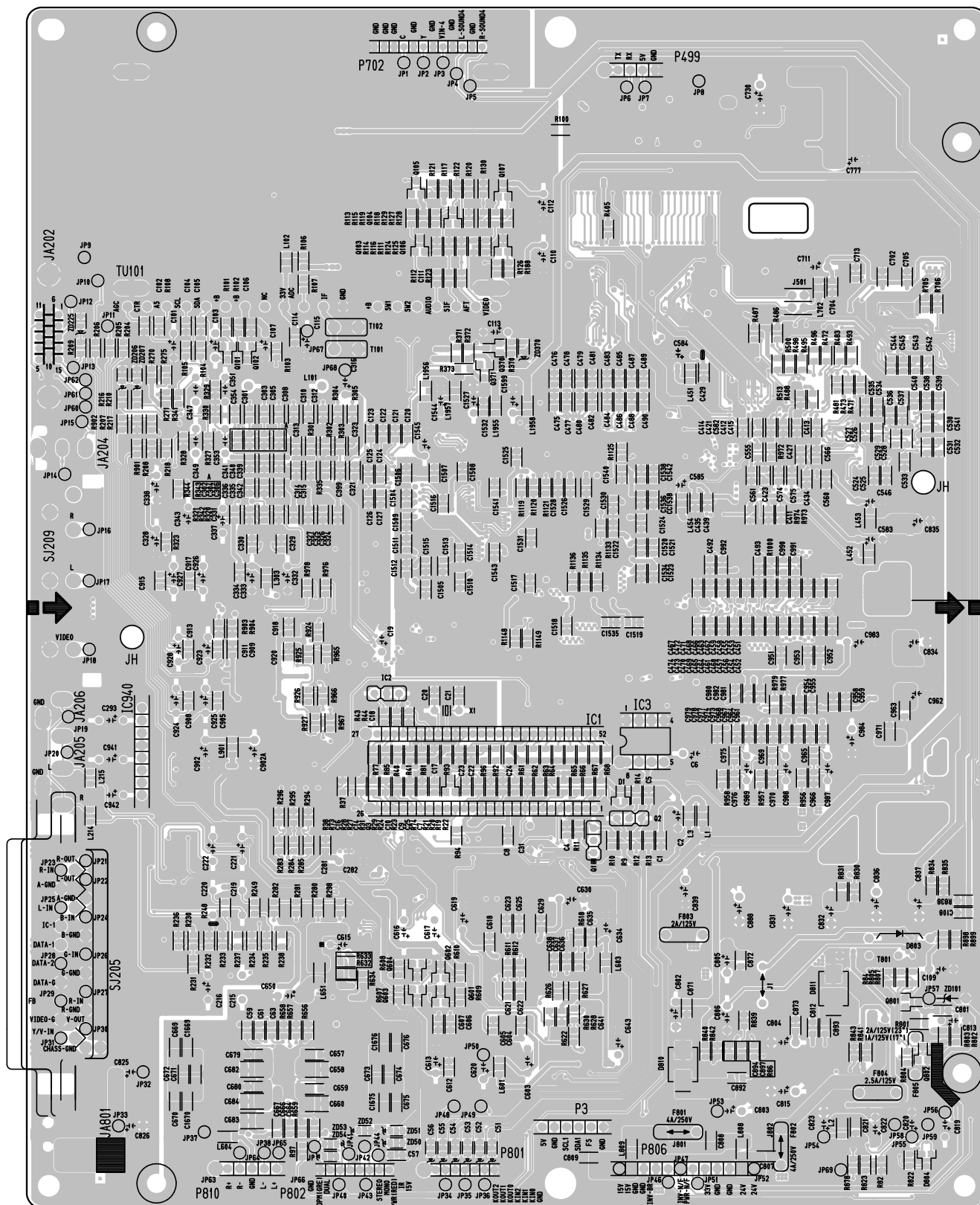
| No. | Symptom | Cause | Check Point |
|-----|-------------------------------------|--|---|
| 1 | No sound - Speaker - Earphone | Defective Reset IC of IC604. Defective MSP3411 of IC601. Defective B+(8V,5V) of IC603. | 1) Check volume and speaker. - Sound comes out only when being inputted into Audio L/R. 2) Check after replacing IC604. 3) Replace IC601. 4) Check and replace B+ of IC603. |
| 2 | Video color beat noise | Earphone shield case being touched. | Check the shield and SJ209, Replace shield case. |
| | | Soldering IC301 and IC510. | Re-soldering |

PRINTED CIRCUIT BOARD

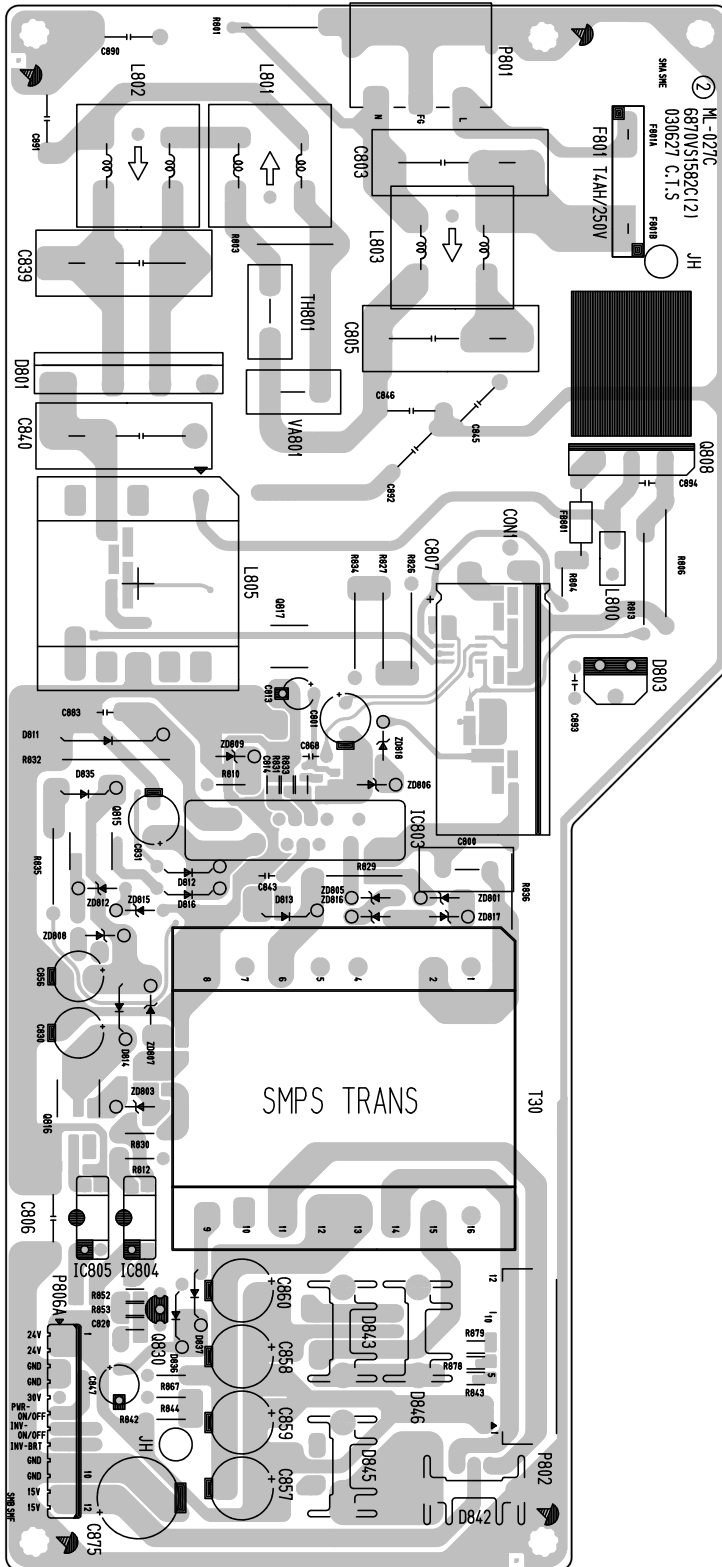
MAIN(TOP)



MAIN(BOTTOM)

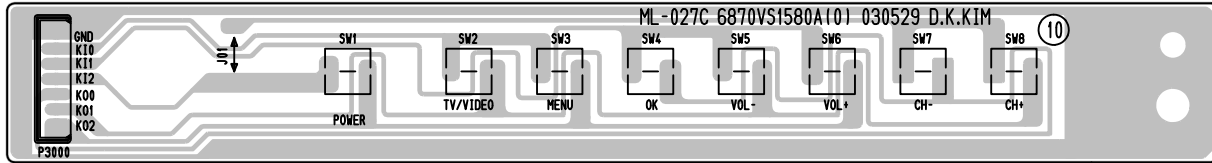


POWER

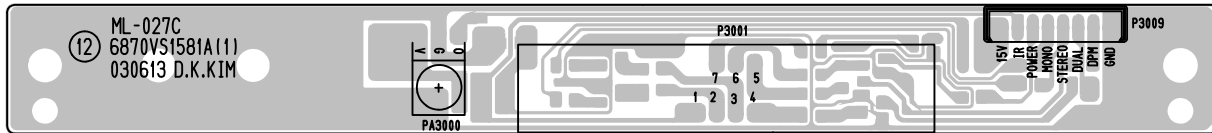


PRINTED CIRCUIT BOARD

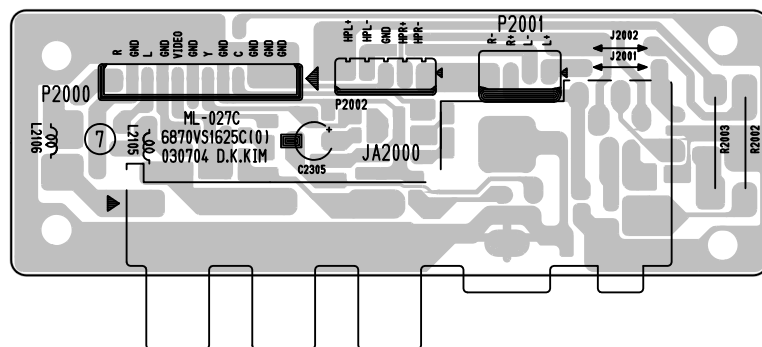
CONTROL



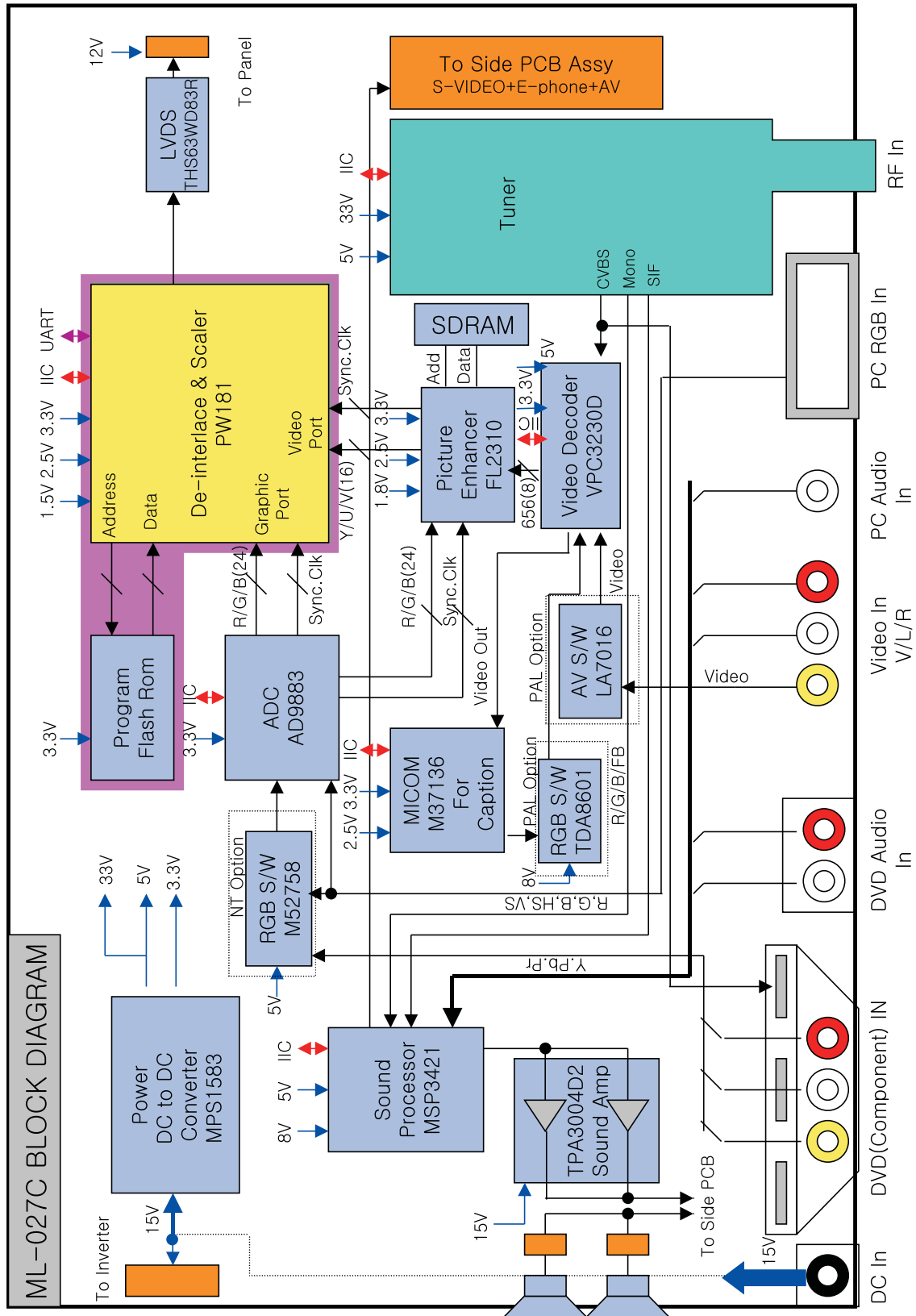
LED



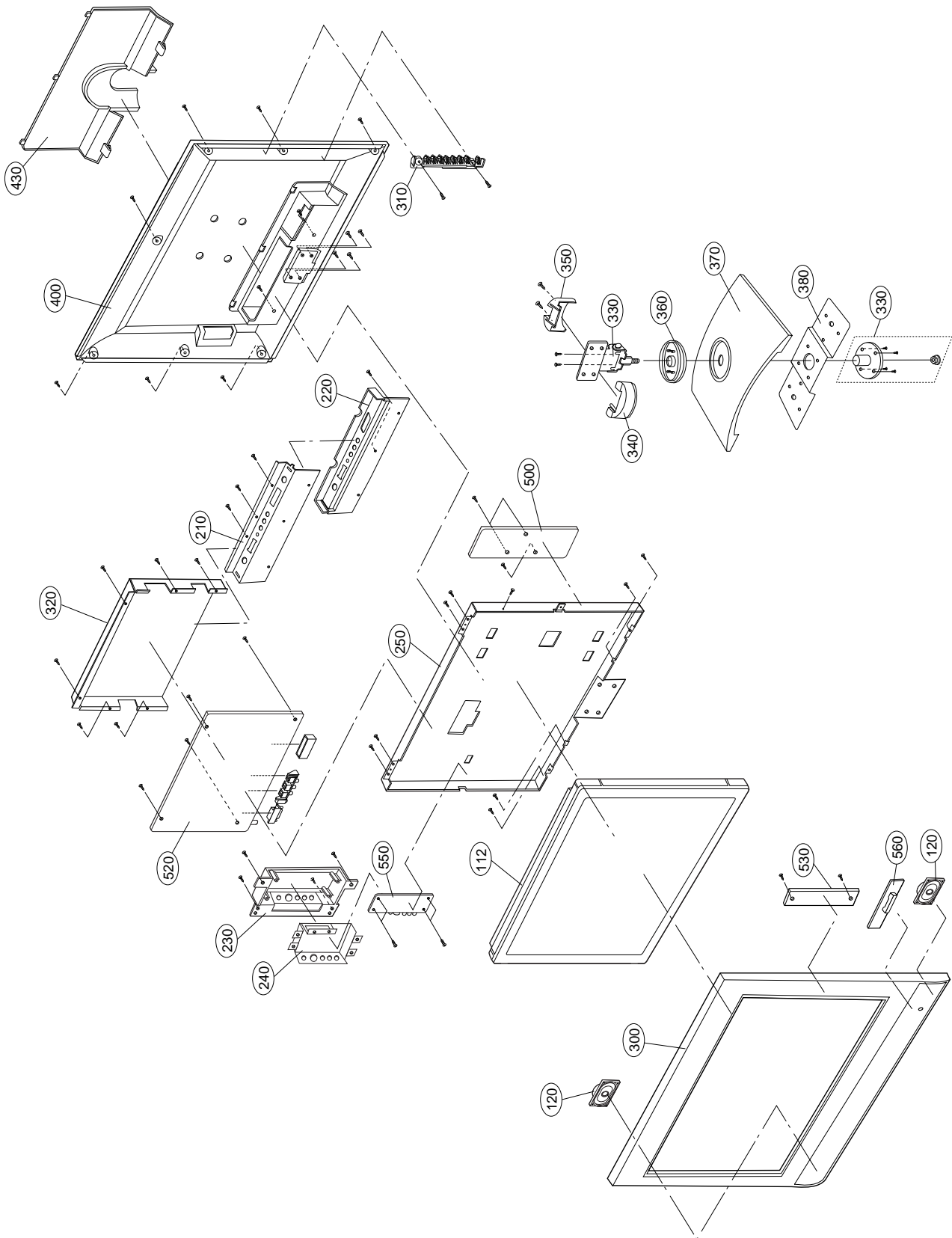
SIDE AV



BLOCK DIAGRAM



EXPLODED VIEW



EXPLODED VIEW PARTS LIST

| No. | PART NO. | DESCRIPTION |
|-----|-------------|---|
| 112 | 6306V23001A | LCD MODULE,LC230W01-A2 LG PHILPS TFT COLOR 23 WXGA LCD |
| 120 | 6400GKTX01A | SPEAKER,FULLRANGE F1527C-6428 (GENERAL) 8OHM 7/12W 83DB |
| 210 | 4950V00151B | METAL,SHIELD ET |
| 230 | 4810V00765E | BRACKET,SIDE AV RU-23LZ20 ML027C HIPS 40AF |
| 240 | 4950V00142A | METAL,SHIELD NON SIDE AV, 20LA60/15LA60 |
| 250 | 4950V00149C | METAL,FRAME SECC(EGI) |
| 300 | 3091V00518B | CABINET ASSEMBLY,RU-23LZ20 STEREO ML027C |
| 310 | 5020V00781A | BUTTON,CONTROL RZ-23LZ20 ABS 8KEY |
| 320 | 4950V00150A | METAL,SHIELD SBHG RZ-23LZ20 |
| 330 | 4950V00157D | METAL,HINGE ASSY SPCC(CR) RZ-23LZ20 |
| 340 | 4810V00767A | BRACKET,STAND 20LA60 ML012B NON HINGE FRONT |
| 350 | 4810V00768A | BRACKET,STAND 20LA60 ML012B NON HINGE COVER |
| 360 | 4810V00766A | BRACKET,DECO 20LA60 ML012B NON STAND DECO. |
| 370 | 4810V00769E | BRACKET,STAND RU-23LZ20 NON ABS, HF-380 . |
| 380 | 4950V00133A | METAL,STAND NON BASE 20LA60 |
| 400 | 3809V00359B | BACK COVER ASSEMBLY,RU-23LZ20 NON |
| 430 | 3500V00068A | BOARD,AV RZ-23LZ20 ML027A COVER REAR |
| 500 | 6871VSMW07A | PWB(PCB) ASSEMBLY, SUB, POWER ML027C ASSY |
| 520 | 6871VMMQ43A | PCB ASSEMBLY,MAIN ML-027C RU-23LZ20 |
| 530 | 6871VSMW11A | PCB ASSEMBLY,SUB CONT ML027C MANNUAL ASSY |
| 540 | 6871VSMW07A | PCB ASSEMBLY,SUB POWER ML027C ASSY |
| 550 | 6871VSMV40E | PCB ASSEMBLY,SUB A/V ML027C RU-23LZ20 |
| 560 | 6871VSMW12B | PCB ASSEMBLY,SUB WINDO ML027C INDEX MANNUAL ASSY |

REPLACEMENT PARTS LIST

For Capacitors & Resistors,
the 2nd and 3rd digits in the
P/N, designate;

CC, CX, CK, CN : Ceramic
CQ : Polyester
CE : Electrolytic

RD : Carbon Film
RS : Metal Oxide Film
RN : Metal Film
RF : Fusible

RUN DATE : 2003.8.13

| LOCA. NO | PART NO | DESCRIPTION |
|-------------------|-------------|--------------------------------------|
| IC | | |
| IC1 | 0IZZVC0098A | M37136EFSP DIP 52P ST |
| IC2 | 0IFA754207A | KA75420ZTA 3P,TO92 TP 4.2V |
| IC201 | 0IAL242110A | AT24C2110SI2.5 8P,SOP TP 1K EEPROM |
| IC202 | 0IMCRFA022A | 74F14SC 14P SCHMITT TRIGGER IC |
| IC3 | 0IAL241610B | AT24C16A10PI2.7 8PIN |
| IC301 | 0IIT323000E | VPC3230D C5 80P VIDEO PROCESSOR |
| IC401 | 0IIN298003A | COPY TE28F800B3TA90 48TSOP BK 8M |
| IC501 | 0IMCRPW001B | PW181(133MHZ) 352PBGA |
| IC502 | 0IMCRTI020A | TLC7733ID 8P SOP R/TP DTYPE 3.3V |
| IC503 | 0IMCRAL006A | AT24C16AN10SI2.7 8P SOIC R/TP EEPROM |
| IC504 | 0IMCRTI002A | SN74HCT32D 16P R/TP QUADRUPLE2INPUT |
| IC510 | 0IMCRGN001B | FLI2310BC 208P DIGITAL VIDEO |
| IC555 | 0IMCRPU001A | P2781A08SR 8 PIN R/TP EMI REDUCTION |
| IC600 | 0IMCRTI022D | TPA3004D2 48P 9WSTEREO AUDIO AMP |
| IC601 | 0IMCRMN007A | MSP3421G QA B8 V3 80P VIRTUAL DOLBY |
| IC603 | 0IMCRFA008A | KA78M05RTM 2P DPAK |
| IC604 | 0IKE704200J | KIA7042AF SOT89 TP 4.2V |
| IC701 | 0IMCRTH001A | THC63LVD83R 56P TRANSMITTER IC |
| IC702 | 0IMCRNS007B | LM2941S 5P TO263 R/TP 12V |
| IC801 | 0IMCRFE001A | FA5501ANTE1 8P POWER CONTROLLER |
| IC803 | 0IMCRFE002A | F922LF219S13RR 23P POWER CONTROLLER |
| IC804 | 0ILI817000G | LTV817MVB 4P,DIP BK PHOTO COUPLER |
| IC805 | 0ILI817000G | LTV817MVB 4P,DIP BK PHOTO COUPLER |
| IC806 | 0IMCRNS007D | LMS1587 CS 1.5V 3P |
| IC807 | 0IMCRNS007C | LMS1587CSADJ 3P TO263 R/TP 1.5V |
| IC808 | 0IMCRNS007C | LMS1587CSADJ 3P TO263 R/TP 1.5V |
| IC888 | 0IMCRNS007A | LM2940S 8V 3P TO263 |
| IC901 | 0IMCRMIO06A | M52758FP 36PIN, R/TP PLL IC |
| IC915 | 0IMMRHY033A | HY57V643220C(L)T6 86P 64M |
| IC950 | 0IMCRAD002A | AD9883A 80P DIGITAL BOARD |
| IC951 | 0IMCRNS007E | LMS1587CS3.3 3P TO263 R/TP 3.3V |
| IC954 | 0IMCRMZ001A | MP1583DN 8P DCDC CONVERTER |
| IC955 | 0IMCRMZ001A | MP1583DN 8P DCDC CONVERTER |
| Q830 | 0IMCRFA007A | KA431Z 3DIP,TO92 TP |
| TRANSISTOR | | |
| IC804 | 0TFVI80005A | SI4963DY R/TP SO8 20V 6.2A |
| IC805 | 0TF492509AA | SI4925DY TP TEMIC 30V 6.1A SO8 |
| Q104 | 0TR387500AA | CHIP 2SC3875S(ALY) KEC |
| Q107 | 0TR387500AA | CHIP 2SC3875S(ALY) KEC |
| Q201 | 0TR387500AA | CHIP 2SC3875S(ALY) KEC |
| Q202 | 0TR387500AA | CHIP 2SC3875S(ALY) KEC |
| Q203 | 0TR387500AA | CHIP 2SC3875S(ALY) KEC |
| Q3 | 0TR387500AA | CHIP 2SC3875S(ALY) KEC |
| Q3000 | 0TR387500AA | CHIP 2SC3875S(ALY) KEC |
| Q3001 | 0TR387500AA | CHIP 2SC3875S(ALY) KEC |

| LOCA. NO | PART NO | DESCRIPTION |
|--------------|-------------|---------------------------------|
| Q3002 | 0TR387500AA | CHIP 2SC3875S(ALY) KEC |
| Q3003 | 0TR387500AA | CHIP 2SC3875S(ALY) KEC |
| Q3004 | 0TR387500AA | CHIP 2SC3875S(ALY) KEC |
| Q3005 | 0TR387500AA | CHIP 2SC3875S(ALY) KEC |
| Q370 | 0TR387500AA | CHIP 2SC3875S(ALY) KEC |
| Q371 | 0TR387500AA | CHIP 2SC3875S(ALY) KEC |
| Q3875 | 0TR387500AA | CHIP 2SC3875S(ALY) KEC |
| Q4 | 0TR387500AA | CHIP 2SC3875S(ALY) KEC |
| Q601 | 0TR150400BA | CHIP 2SA1504S(ASY) KEC |
| Q602 | 0TR150400BA | CHIP 2SA1504S(ASY) KEC |
| Q605 | 0TR387500AA | CHIP 2SC3875S(ALY) KEC |
| Q606 | 0TR150400BA | CHIP 2SA1504S(ASY) KEC |
| Q701 | 0TR387500AA | CHIP 2SC3875S(ALY) KEC |
| Q801 | 0TR387500AA | CHIP 2SC3875S(ALY) KEC |
| Q802 | 0TR387500AA | CHIP 2SC3875S(ALY) KEC |
| Q805 | 0TR387500AA | CHIP 2SC3875S(ALY) KEC |
| Q806 | 0TR387500AA | CHIP 2SC3875S(ALY) KEC |
| Q808 | 0TFFJ10002A | 2SK360801 FUJI ST USC 500V 52A |
| Q810 | 0TR387500AA | CHIP 2SC3875S(ALY) KEC |
| Q811 | 0TR387500AA | CHIP 2SC3875S(ALY) KEC |
| Q812 | 0TR387500AA | CHIP 2SC3875S(ALY) KEC |
| Q815 | 0TFFJ80001A | 2SK201801STB16R TSOP6 60V 10A |
| Q816 | 0TFFJ80001A | 2SK201801STB16R TSOP6 60V 10A |
| Q817 | 0TFFJ80001B | 2SK207101STB16R TSOP6 60V 2A |
| DIODE | | |
| C55 | 0DZRM00178A | ZENERS,UDZS TE17 5.1B |
| C56 | 0DZRM00178A | ZENERS,UDZS TE17 5.1B |
| D1 | 0DD181009AB | KDS181 TP KEC 85V 300MA |
| D801 | 0DRSA00150A | RBV406 600V 4A 80VA .SEC 10MA |
| D802 | 0DD100009AM | EU1ZV(1) TP SANKEN |
| D803 | 0DR260001AA | FMG26S TO220 600V 6A 50A |
| D804 | 0DD181009AB | KDS181 TP KEC 85V 300MA |
| D810 | 0DR340009AA | MBRS340 40V 3A 80A 2MA |
| D811 | 0DR340009AA | MBRS340 40V 3A 80A 2MA |
| D811 | 0DD100009AM | EU1ZV(1) TP SANKEN |
| D812 | 0DD100009AM | EU1ZV(1) TP SANKEN |
| D813 | 0DD100009AM | EU1ZV(1) TP SANKEN |
| D814 | 0DD100009AM | EU1ZV(1) TP SANKEN |
| D816 | 0DD100009AM | EU1ZV(1) TP SANKEN |
| D835 | 0DD100009AM | EU1ZV(1) TP SANKEN |
| D836 | 0DR060009AA | TVR06J DO41 600V 0.6A |
| D837 | 0DR060009AA | TVR06J DO41 600V 0.6A |
| D842 | 0DRFJ00061A | YG805C06R 60V 20A 80A .SEC 15MA |
| D843 | 0DR240000BA | FML24S TO220 400V 10A 70A |
| D845 | 0DR240000BA | FML24S TO220 400V 10A 70A |
| D846 | 0DR240000BA | FML24S TO220 400V 10A 70A |
| ZD203 | 0DZRM00178A | ZENERS,UDZS TE17 5.1B |

REPLACEMENT PARTS LIST

| LOCA. NO | PART NO | DESCRIPTION | LOCA. NO | PART NO | DESCRIPTION |
|------------------|-------------|-----------------------|----------|-------------|-----------------------|
| ZD204 | 0DZRM00178A | ZENERS,UDZS TE17 5.1B | C338 | 0CE107DF618 | 100UF STD 16V M |
| ZD205 | 0DZRM00178A | ZENERS,UDZS TE17 5.1B | C341 | 0CK224DF56A | 220000PF 2012 16V 10% |
| ZD206 | 0DZRM00178A | ZENERS,UDZS TE17 5.1B | C343 | 0CE476DF618 | 47UF STD 16V M |
| ZD207 | 0DZRM00178A | ZENERS,UDZS TE17 5.1B | C347 | 0CE105CK636 | 1UF SHL,SD 50V M |
| ZD215 | 0DZRM00178A | ZENERS,UDZS TE17 5.1B | C349 | 0CE105CK636 | 1UF SHL,SD 50V M |
| ZD216 | 0DZRM00178A | ZENERS,UDZS TE17 5.1B | C351 | 0CE105CK636 | 1UF SHL,SD 50V M |
| ZD225 | 0DZRM00178A | ZENERS,UDZS TE17 5.1B | C353 | 0CE105CK636 | 1UF SHL,SD 50V M |
| ZD370 | 0DZRM00248A | ZENERS,RLZ8.2BTE11 | C51 | 0DZRM00178A | UDZS TE17 5.1B |
| ZD801 | 0DZ180009AA | ZENERS,MTZ18B | C52 | 0DZRM00178A | UDZS TE17 5.1B |
| ZD803 | 0DZ180009AA | ZENERS,MTZ18B | C53 | 0DZRM00178A | UDZS TE17 5.1B |
| ZD805 | 0DZ180009AA | ZENERS,MTZ18B | C54 | 0DZRM00178A | UDZS TE17 5.1B |
| ZD806 | 0DZ110009AA | ZENER,MTZ 11B | C546 | 0CE107DF618 | 100UF STD 16V M |
| ZD807 | 0DZ560009AA | ZENERS,MTZ5.6B | C583 | 0CE107DF618 | 100UF STD 16V M |
| ZD808 | 0DZ110009AA | ZENER,MTZ 11B | C584 | 0CE107DF618 | 100UF STD 16V M |
| ZD809 | 0DZ560009AA | ZENERS,MTZ5.6B | C585 | 0CE107DF618 | 100UF STD 16V M |
| ZD812 | 0DZ110009AA | ZENER,MTZ 11B | C59 | 0CK105DF64A | 1UF 2012 16V 20% |
| ZD815 | 0DZ910009AJ | ZENERS,MTZJ9.1B | C6 | 0CE107DF618 | 100UF STD 16V M |
| ZD816 | 0DZ910009AJ | ZENERS,MTZJ9.1B | C60 | 0CK105DF64A | 1UF 2012 16V 20% |
| ZD817 | 0DZ910009AJ | ZENERS,MTZJ9.1B | C603 | 0CE476DF618 | 47UF STD 16V M |
| ZD818 | 0DZ110009AA | ZENER,MTZ 11B | C61 | 0CK105DF64A | 1UF 2012 16V 20% |
| CAPACITOR | | | C613 | 0CE107DF618 | 100UF STD 16V M |
| C107 | 0CE108DD618 | 1000UF STD 10V M | C615 | 0CE107DD618 | 100UF STD 10V M |
| C109 | 0CE106DK618 | 10UF STD 50V M | C616 | 0CE106DF618 | 10UF STD 16V M |
| C112 | 0CE476DF618 | 47UF STD 16V M | C617 | 0CE106DF618 | 10UF STD 16V M |
| C113 | 0CE107DF618 | 100UF STD 16V M | C619 | 0CE335DK618 | 3.3UF STD 50V 20% |
| C1527 | 0CE107DF618 | 100UF STD 16V M | C62 | 0CK105DF64A | 1UF 2012 16V 20% |
| C1532 | 0CE107DF618 | 100UF STD 16V M | C620 | 0CE477DF618 | 470UF STD 16V 20% |
| C1544 | 0CE476DF618 | 47UF STD 16V M | C621 | 0CK224DF56A | 220000PF 2012 16V 10% |
| C1545 | 0CE107DD618 | 100UF STD 10V M | C622 | 0CK224DF56A | 220000PF 2012 16V 10% |
| C1599 | 0CE107DD618 | 100UF STD 10V M | C624 | 0CK224DF56A | 220000PF 2012 16V 10% |
| C19 | 0CE106DF618 | 10UF STD 16V M | C626 | 0CK224DF56A | 220000PF 2012 16V 10% |
| C2 | 0CE107DF618 | 100UF STD 16V M | C627 | 0CK224DF56A | 220000PF 2012 16V 10% |
| C2 | 0CE687DD618 | 680UF STD 10V 20% | C628 | 0CK224DF56A | 220000PF 2012 16V 10% |
| C216 | 0CE106DF618 | 10UF STD 16V M | C63 | 0CK105DF64A | 1UF 2012 16V 20% |
| C219 | 0CE106DF618 | 10UF STD 16V M | C630 | 0CE107DF618 | 100UF STD 16V M |
| C220 | 0CE106DF618 | 10UF STD 16V M | C634 | 0CE107DF618 | 100UF STD 16V M |
| C2300 | 0CK105DF64A | 1UF 2012 16V 20% | C643 | 0CE476DK618 | 47UF STD 50V M |
| C2301 | 0CK105DF64A | 1UF 2012 16V 20% | C644 | 0CK224DF56A | 220000PF 2012 16V 10% |
| C2305 | 0CE225DK618 | 2.2UF STD 50V 20% | C645 | 0CK224DF56A | 220000PF 2012 16V 10% |
| C301 | 0CK224DF56A | 220000PF 2012 16V 10% | C650 | 0CE227DH618 | 220UF STD 25V M |
| C303 | 0CK224DF56A | 220000PF 2012 16V 10% | C658 | 0CN475FH67A | 4.7UF 3225 25V 20% |
| C305 | 0CK224DF56A | 220000PF 2012 16V 10% | C660 | 0CN475FH67A | 4.7UF 3225 25V 20% |
| C31 | 0CE105DK618 | 1UF STD 50V M | C662 | 0CK105DF64A | 1UF 2012 16V 20% |
| C315 | 0CK224DF56A | 220000PF 2012 16V 10% | C665 | 0CK105DF64A | 1UF 2012 16V 20% |
| C316 | 0CE107DD618 | 100UF STD 10V M | C666 | 0CK105DF64A | 1UF 2012 16V 20% |
| C328 | 0CE106DF618 | 10UF STD 16V M | C668 | 0CK105DF64A | 1UF 2012 16V 20% |
| C332 | 0CE476DF618 | 47UF STD 16V M | C677 | 0CK105DF64A | 1UF 2012 16V 20% |
| C333 | 0CE107DF618 | 100UF STD 16V M | C682 | 0CN475FH67A | 4.7UF 3225 25V 20% |
| C336 | 0CK224DF56A | 220000PF 2012 16V 10% | C683 | 0CN475FH67A | 4.7UF 3225 25V 20% |
| C337 | 0CE226DF618 | 22UF STD 16V M | C684 | 0CN475FH67A | 4.7UF 3225 25V 20% |
| | | | C711 | 0CE107DF618 | 100UF STD 16V M |

REPLACEMENT PARTS LIST

| LOCA. NO | PART NO | DESCRIPTION | LOCA. NO | PART NO | DESCRIPTION |
|----------|-------------|-----------------------------------|-------------------------------|-------------|---|
| C730 | 0CE107DH618 | 100UF STD 25V M | C888 | 0CE477DH618 | 470UF STD 25V M |
| C777 | 0CE477DF618 | 470UF STD 16V 20% | C890 | 181-120P | 470 PF 4KV K JE R FL 10 |
| C800 | 181-010M | PP 630V 0.018UF J | C891 | 181-120P | 470 PF 4KV K JE R FL 10 |
| C801 | 0CE476DK618 | 47UF STD 50V M | C892 | 181-120N | 1000PF 4KV M E 5 |
| C801 | 0CE475DK618 | 4.7UF STD 50V 20% | C894 | 181-091N | SL 100PF 1KV 10%,10% |
| C801 | 0CE107DK618 | 100UF STD 50V M | C898 | 181-120P | 470 PF 4KV K JE R FL 10 |
| C802 | 0CE477DF618 | 470UF STD 16V 20% | C899 | 181-120P | 470 PF 4KV K JE R FL 10 |
| C803 | 0CE227DJ618 | 220UF STD 35V M | C902 | 0CE477DD618 | 470UF STD 10V M |
| C803 | 0CQZVBK002D | A.C 275V 0.47UF K (S=22.5) | C902 | 0CE107DF618 | 100UF STD 16V M |
| C803 | 0CQZVBK002C | A.C 275V 0.22UF K (S=22.5) | C902A | 0CE227DD618 | 220UF STD 10V M |
| C804 | 0CE477DF618 | 470UF STD 16V 20% | C923 | 0CE476DF618 | 47UF STD 16V M |
| C805 | 0CE477DF618 | 470UF STD 16V 20% | C924 | 0CE476DF618 | 47UF STD 16V M |
| C805 | 0CQZVBK002C | A.C 275V 0.22UF K (S=22.5) | C925 | 0CE476DF618 | 47UF STD 16V M |
| C806 | 0CE477DF618 | 470UF STD 16V 20% | C926 | 0CE476DF618 | 47UF STD 16V M |
| C807 | 0CE1072V610 | 100UF KMF 450V 20% | C927 | 0CE476DF618 | 47UF STD 16V M |
| C813 | 0CE107DD618 | 100UF STD 10V M | C928 | 0CE476DF618 | 47UF STD 16V M |
| C813 | 0CE475DK618 | 4.7UF STD 50V 20% | C941 | 0CE106DK618 | 10UF STD 50V M |
| C815 | 0CE227DJ618 | 220UF STD 35V M | C942 | 0CE107DF618 | 100UF STD 16V M |
| C819 | 0CE106DF618 | 10UF STD 16V M | C956 | 0CK823DK56A | 82000PF 2012 50V 10% |
| C820 | 0CE226DF618 | 22UF STD 16V M | C962 | 0CE107DF618 | 100UF STD 16V M |
| C820 | 0CK105DF64A | 1UF 2012 16V 20% | C991 | 0CK105DF64A | 1UF 2012 16V 20% |
| C822 | 0CE107DH618 | 100UF STD 25V M | FUSE | | |
| C823 | 0CE227DH618 | 220UF STD 25V M | F801 | 0FS4001B84B | FUSE,SLOW BLOW 0FS 4000MA 250V |
| C823 | 0CE227DJ618 | 220UF STD 35V M | F801 | 131-098B | FUSE,SLOW BLOW 4000MA 250V |
| C825 | 0CE477DH618 | 470UF STD 25V M | F802 | 0FS4001B84B | FUSE,SLOW BLOW 0FS 4000MA 250V |
| C826 | 0CE477DH618 | 470UF STD 25V M | F803 | 0FT2001A86B | FUSE,SLOW BLOW 2000MA 125V |
| C830 | 0CE107DK618 | 100UF STD 50V M | F805 | 0FT2001A86B | FUSE,SLOW BLOW 2000MA 125V |
| C831 | 0CE477DD618 | 470UF STD 10V M | F805 | 0FS2501B84B | FUSE,SLOW BLOW 2500MA 250V |
| C831 | 0CE227BJ618 | 220U KME 35V M | JACK | | |
| C832 | 0CE477DD618 | 470UF STD 10V M | JA2000 | 6613V00018A | JACK ASSEMBLY,PMJ026A (7PIN) |
| C834 | 0CE477DD618 | 470UF STD 10V M | JA204 | 6612VCH003B | JACK,PHONE PEJ012C |
| C835 | 0CE477DD618 | 470UF STD 10V M | JA205 | 380-336E | JACK,RCA WA6013E 1P |
| C836 | 0CE477DD618 | 470UF STD 10V M | JA206 | 380-336F | JACK,RCA WA6013E 1P |
| C837 | 0CE477DD618 | 470UF STD 10V M | SJ205 | 6612VJH008D | JACK,RCA PJ6063D DVD IN 3P |
| C839 | 0CE477DD618 | 470UF STD 10V M | SJ209 | 6613V00004P | JACK ASSY,PJ6054P 3P |
| C839 | 0CE477DF618 | 470UF STD 16V 20% | COIL & TRANSFORMER | | |
| C839 | 0CQZVBK002D | A.C 275V 0.47UF K (S=22.5) | L101 | 0LA0102K139 | INDUCTOR,10UH K |
| C840 | 181-013R | MPP 0.47UF 400V 5% FM | L2105 | 0LA0472K119 | INDUCTOR,47UH K |
| C843 | 181-007T | MPE ECQV1H105JL3(TR), 50V 1.0UF J | L2106 | 0LA0472K119 | INDUCTOR,47UH K |
| C845 | 181-120P | 470 PF 4KV K JE R FL 10 | L652 | 6140VR0008A | COIL,SLF12575T330M4R7 33UH |
| C846 | 181-120P | 470 PF 4KV K JE R FL 10 | L653 | 6140VR0008A | COIL,SLF12575T330M4R7 33UH |
| C847 | 0CE476BK618 | 47UF KME 50V M | L654 | 6140VR0008A | COIL,SLF12575T330M4R7 33UH |
| C856 | 0CE226DN618 | 22UF STD 100V M | L655 | 6140VR0008A | COIL,SLF12575T330M4R7 33UH |
| C857 | 0CE477BJ618 | 470UF KME TYPE 35V 20% | L801 | 6140VR0008B | COIL,SLF12575T150M3R2 15UH |
| C858 | 0CE477BJ618 | 470UF KME TYPE 35V 20% | L805 | 6140VR0008B | COIL,SLF12575T150M3R2 15UH |
| C859 | 0CE477BJ618 | 470UF KME TYPE 35V 20% | L805 | 6170VMCA47B | TRANSFORMER,SMPS[COIL] EER3016 325UH |
| C860 | 0CE477BJ618 | 470UF KME TYPE 35V 20% | T30 | 6170VMCA611 | TRANSFORMER,SMPS[COIL] MB3EPC50Z 1850UH |
| C868 | 181-007T | MPE ECQV1H105JL3(TR), 50V 1.0UF J | | | |
| C875 | 0CE108DH618 | 1000UF STD 25V M | | | |
| C883 | 181-091R | R 1000PF 1KV 10%,10% | | | |
| C888 | 0CE477DD618 | 470UF STD 10V M | | | |

REPLACEMENT PARTS LIST

| LOCA. NO | PART NO | DESCRIPTION |
|------------------|-------------|-------------------------------|
| CONNECTOR | | |
| JA202 | 6630G15E215 | CONNECTOR,DSUB 15P 2.29MM |
| P2000 | 6631V20014A | CONNECTOR ASSEMBLY,12P 2.0MM |
| P2002 | 387-A05K | CONNECTOR ASSEMBLY,5P 2.5MM |
| P3000 | 6631V20037G | CONNECTOR ASSEMBLY,7P 2.0MM |
| P3009 | 6631V20010F | CONNECTOR ASSEMBLY,8P 2.0MM |
| P806A | 387-A15B | CONNECTOR ASSEMBLY,12P 2.5MM |
| RESISTOR | | |
| R2002 | 0RS1500J607 | 150 OHM 1 W 5.00% |
| R2003 | 0RS1500J607 | 150 OHM 1 W 5.00% |
| R536 | 0RD1004H609 | 1M OHM 1/2 W 5.00% |
| R801 | 0RKZVTA001D | 10M OHM 1/2 W 5% |
| R803 | 0RKZVTA001K | 0.47M OHM 1/2 W 5% |
| R804 | 0RD0222F609 | 22 OHM 1/6 W 5.00% |
| R806 | 180-A01B | RW ROUND G 2W 0.11 K |
| R810 | 0RD3301F609 | 3.3K OHM 1/6 W 5.00% |
| R812 | 0RD2200F609 | 220 OHM 1/6 W 5.00% |
| R813 | 0RD1000F609 | 100 OHM 1/6 W 5% |
| R826 | 0RD2202H609 | 22K OHM 1/2 W 5.00% |
| R827 | 0RD2202H609 | 22K OHM 1/2 W 5.00% |
| R829 | 0RD2700H609 | 270 OHM 1/2 W 5.00% |
| R830 | 0RD2202F609 | 22K OHM 1/6 W 5% |
| R832 | 180-A01E | 2 W RW ROUND G 2W 0.33J |
| R834 | 0RD2202H609 | 22K OHM 1/2 W 5.00% |
| R835 | 0RD0221H609 | 2.2 OHM 1/2 W 5.00% |
| R836 | 0RD1004H609 | 1M OHM 1/2 W 5.00% |
| R842 | 0RD2702F609 | 27K OHM 1/6 W 5.00% |
| R844 | 0RD6801F609 | 6.8K OHM 1/6 W 5.00% |
| R867 | 0RD3901F609 | 3.9K OHM 1/6 W 5% |
| RA401 | 0RRZVTA001A | MNR14E0AJ101 R OHM 100 OHM 5% |
| RA402 | 0RRZVTA001A | MNR14E0AJ101 R OHM 100 OHM 5% |
| RA403 | 0RRZVTA001A | MNR14E0AJ101 R OHM 100 OHM 5% |
| RA404 | 0RRZVTA001A | MNR14E0AJ101 R OHM 100 OHM 5% |
| RA405 | 0RRZVTA001A | MNR14E0AJ101 R OHM 100 OHM 5% |
| RA406 | 0RRZVTA001A | MNR14E0AJ101 R OHM 100 OHM 5% |
| RA407 | 0RRZVTA001A | MNR14E0AJ101 R OHM 100 OHM 5% |
| RA451 | 0RRZVTA001A | MNR14E0AJ101 R OHM 100 OHM 5% |
| RA452 | 0RRZVTA001A | MNR14E0AJ101 R OHM 100 OHM 5% |
| RA453 | 0RRZVTA001A | MNR14E0AJ101 R OHM 100 OHM 5% |
| RA454 | 0RRZVTA001A | MNR14E0AJ101 R OHM 100 OHM 5% |
| RA502 | 0RRZVTA001A | MNR14E0AJ101 R OHM 100 OHM 5% |
| RA511 | 0RRZVTA001A | MNR14E0AJ101 R OHM 100 OHM 5% |
| RA512 | 0RRZVTA001A | MNR14E0AJ101 R OHM 100 OHM 5% |
| RA525 | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5% |
| RA525 | 0RRZVTA001A | MNR14E0AJ101 R OHM 100 OHM 5% |
| RA526 | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5% |
| RA526 | 0RRZVTA001A | MNR14E0AJ101 R OHM 100 OHM 5% |
| RA701 | 0RRZVTA001A | MNR14E0AJ101 R OHM 100 OHM 5% |
| RA702 | 0RRZVTA001A | MNR14E0AJ101 R OHM 100 OHM 5% |

| LOCA. NO | PART NO | DESCRIPTION |
|-----------------------------|-------------|-------------------------------|
| RA703 | 0RRZVTA001A | MNR14E0AJ101 R OHM 100 OHM 5% |
| RA704 | 0RRZVTA001A | MNR14E0AJ101 R OHM 100 OHM 5% |
| RA705 | 0RRZVTA001A | MNR14E0AJ101 R OHM 100 OHM 5% |
| RA706 | 0RRZVTA001A | MNR14E0AJ101 R OHM 100 OHM 5% |
| RA707 | 0RRZVTA001A | MNR14E0AJ101 R OHM 100 OHM 5% |
| SWITCH | | |
| SW1 | 140-313B | SWITCH,TACT 2LEAD 160G(TA) |
| SW2 | 140-313B | SWITCH,TACT 2LEAD 160G(TA) |
| SW3 | 140-313B | SWITCH,TACT 2LEAD 160G(TA) |
| SW4 | 140-313B | SWITCH,TACT 2LEAD 160G(TA) |
| SW5 | 140-313B | SWITCH,TACT 2LEAD 160G(TA) |
| SW501 | 6600VR1004A | SWITCH,TACT SKHMPW 5P |
| SW502 | 6600VR1004A | SWITCH,TACT SKHMPW 5P |
| SW6 | 140-313B | SWITCH,TACT 2LEAD 160G(TA) |
| SW7 | 140-313B | SWITCH,TACT 2LEAD 160G(TA) |
| SW8 | 140-313B | SWITCH,TACT 2LEAD 160G(TA) |
| FILTER & CRYSTAL | | |
| FB801 | 125-022K | FILTER,EMC FERRITE 1UH |
| L102 | 6210TCE001G | FILTER,EMC HH1M3216501 |
| L103 | 6210TCE001G | FILTER,EMC HH1M3216501 |
| L1955 | 6210TCE001G | FILTER,EMC HH1M3216501 |
| L1956 | 6210TCE001G | FILTER,EMC HH1M3216501 |
| L1957 | 6210TCE001G | FILTER,EMC HH1M3216501 |
| L1958 | 6210TCE001G | FILTER,EMC HH1M3216501 |
| L205 | 6210TCE001A | FILTER,EMC HB1S2012080JT |
| L206 | 6210TCE001A | FILTER,EMC HB1S2012080JT |
| L2100 | 6210TCE001A | FILTER,EMC HB1S2012080JT |
| L2101 | 6210TCE001A | FILTER,EMC HB1S2012080JT |
| L2105 | 6210TCE001A | FILTER,EMC HB1S2012080JT |
| L2106 | 6210TCE001A | FILTER,EMC HB1S2012080JT |
| L2107 | 6210TCE001A | FILTER,EMC HB1S2012080JT |
| L2108 | 6210TCE001G | FILTER,EMC HH1M3216501 |
| L2109 | 6210TCE001G | FILTER,EMC HH1M3216501 |
| L214 | 6210TCE001A | FILTER,EMC HB1S2012080JT |
| L215 | 6210TCE001A | FILTER,EMC HB1S2012080JT |
| L3 | 6210TCE001G | FILTER,EMC HH1M3216501 |
| L301 | 6210TCE001G | FILTER,EMC HH1M3216501 |
| L302 | 6210TCE001A | FILTER,EMC HB1S2012080JT |
| L303 | 6210TCE001G | FILTER,EMC HH1M3216501 |
| L451 | 6210TCE001G | FILTER,EMC HH1M3216501 |
| L452 | 6210TCE001G | FILTER,EMC HH1M3216501 |
| L453 | 6210TCE001G | FILTER,EMC HH1M3216501 |
| L454 | 6210TCE001G | FILTER,EMC HH1M3216501 |
| L601 | 6210TCE001G | FILTER,EMC HH1M3216501 |
| L603 | 6210TCE001G | FILTER,EMC HH1M3216501 |
| L604 | 6210TCE001G | FILTER,EMC HH1M3216501 |
| L651 | 6210TCE001G | FILTER,EMC HH1M3216501 |
| L699 | 6210TCE001G | FILTER,EMC HH1M3216501 |
| L702 | 6210TCE001G | FILTER,EMC HH1M3216501 |

REPLACEMENT PARTS LIST

| LOCA. NO | PART NO | DESCRIPTION | LOCA. NO | PART NO | DESCRIPTION |
|----------------------|-------------|--------------------------------------|----------|---------|-------------|
| L703 | 6210TCE001A | FILTER,EMC HB1S2012080JT | | | |
| L732 | 6210TCE001G | FILTER,EMC HH1M3216501 | | | |
| L800 | 125-123A | FILTER,EMC FERRITE BFD3565R2F | | | |
| L801 | 6200JB8012Q | FILTER,EMC OR 14*7*7.5H | | | |
| L802 | 6200JB8012Q | FILTER,EMC OR 14*7*7.5H | | | |
| L803 | 6200JB8012Q | FILTER,EMC OR 14*7*7.5H | | | |
| L808 | 6210TCE001G | FILTER,EMC HH1M3216501 | | | |
| L901 | 6210TCE001G | FILTER,EMC HH1M3216501 | | | |
| L951 | 6210TCE001G | FILTER,EMC HH1M3216501 | | | |
| L952 | 6210TCE001G | FILTER,EMC HH1M3216501 | | | |
| L953 | 6210TCE001G | FILTER,EMC HH1M3216501 | | | |
| L954 | 6210TCE001A | FILTER,EMC HB1S2012080JT | | | |
| RA504 | 6210VC0004A | FILTER,EMC BK3216 4S600 | | | |
| X1 | 156-A01P | RESONATOR,CRYSTAL HC49U 8.000MHZ | | | |
| X1501 | 6202VDT002J | RESONATOR,CRYSTAL SX1 13.500000MHZ | | | |
| X301 | 6202VDT002E | RESONATOR,CRYSTAL SX1SMD 20250000HZ | | | |
| X501 | 6202VDT002B | RESONATOR,CRYSTAL SX1 SC14.3MHZ | | | |
| X601 | 6202VDT002H | RESONATOR,CRYSTAL SX1 18.432000MHZ | | | |
| MISCELLANEOUS | | | | | |
| F801A | 430-813A | HOLDER,FUSE NON MC994C | | | |
| F801B | 430-813A | HOLDER,FUSE NON MC994C | | | |
| P3001 | 3720V00194C | PANEL ASSY,RU15LA60 NON | | | |
| P801 | 6620VZ0002A | SOCKET,DRAWING IS7007 ISHENG AC | | | |
| PA3000 | 6726VV0006D | REMOTE CONTROLLER RECEIVER,38.0KHZ | | | |
| TH801 | 163-048D | THERMISTOR,KL15L2R5 +/- 15% 125V | | | |
| TU101 | 6700VNF019E | TUNER,TAFHH001P LG NTSC FS | | | |
| VA801 | 164-003K | VARISTOR,SVC621D14A 620V 0% | | | |
| ACCESSORIES | | | | | |
| A1 | 3828VA0387C | MANUAL,OWNERS ML027C ZENITH | | | |
| A2 | 6710V00091K | REMOTE CONTROLLER,ML027C STEREO | | | |
| A3 | 6410VUH007A | POWER CORD,SP305+IS034 SVT18AWG*3C | | | |
| A4 | 6851V00004D | CABLE ASSEMBLY,AUDIO TO AUDIO 2000MM | | | |
| A5 | 6866VA9001A | CONNECTOR,DSUB 29909C,AT,L1830 | | | |

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